OIPE 04-18-01 #2

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/813,718 ENTERED

CRF Processing Date: 4/5/2001
Edited by: DA
Verified by: _____ (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: 2
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
- ☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected: _____
- ☐ Other:

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING DATE: 04/11/2001
PATENT APPLICATION: US/09/813,718 TIME: 17:38:24

Input Set : A:\Pto.da
Output Set: N:\CRF3\04112001\I813718.raw

<110> APPLICANT: Schimmel, Paul
Wakasugi, Keisuke
<120> TITLE OF INVENTION: Human Aminoacyl-tRNA Synthetase Polypeptides Useful For The Regulation of Angiogenesis
<130> FILE REFERENCE: 00-221
C--> <140> CURRENT APPLICATION NUMBER: US/09/813,718
C--> <141> CURRENT FILING DATE: 2001-03-21
<160> NUMBER OF SEQ ID NOS: 58
<170> SOFTWARE: PatentIn Ver. 2.0
<210> SEQ ID NO: 1
<211> LENGTH: 5174
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<221> NAME/KEY: CDS
<222> LOCATION: (3428)..(5035)
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<223> OTHER INFORMATION: Description of Artificial Sequence: human full-length TyrRS in pET20B
<400> SEQUENCE: 1

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RAW SEQUENCE LISTING DATE: 04/11/2001
PATENT APPLICATION: US/09/813,718 TIME: 17:38:24

Input Set : A:\Pto.da
Output Set: N:\CRF3\04112001\I813718.raw

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142 cccgtggcca ggacccaacg ctgcccgaga tctcgatccc gcgaaattaa tacgactcac 3360
144 tatagggaga ccacaacggt ttccctctag aaataatttt gtttaacttt aagaaggaga 3420
146 tatacat atg ggg gac gct ccc agc cct gaa gag aaa ctg cac ctt atc   3469
147         Met Gly Asp Ala Pro Ser Pro Glu Glu Lys Leu His Leu Ile
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150 acc cgg aac ctg cag gag gtt ctg ggg gaa gag aag ctg aag gag ata   3517
151 Thr Arg Asn Leu Gln Glu Val Leu Gly Glu Glu Lys Leu Lys Glu Ile
152  15                  20                  25                  30
154 ctg aag gag cgg gaa ctt aaa att tac tgg gga acg gca acc acg ggc   3565
155 Leu Lys Glu Arg Glu Leu Lys Ile Tyr Trp Gly Thr Ala Thr Thr Gly
156              35                  40                  45
158 aaa cca cat gtg gct tac ttt gtg ccc atg tca aag att gca gac ttc   3613
159 Lys Pro His Val Ala Tyr Phe Val Pro Met Ser Lys Ile Ala Asp Phe
160              50                  55                  60
162 tta aag gca ggg tgt gag gta aca att ctg ttt gcg gac ctc cac gca   3661
163 Leu Lys Ala Gly Cys Glu Val Thr Ile Leu Phe Ala Asp Leu His Ala
164          65                  70                  75
166 tac ctg gat aac atg aaa gcc cca tgg gaa ctt cta gaa ctc cga gtc   3709
167 Tyr Leu Asp Asn Met Lys Ala Pro Trp Glu Leu Leu Glu Leu Arg Val
168      80                  85                  90
170 agt tac tat gag aat gtg atc aaa gca atg ctg gag agc att ggt gtg   3757
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RAW SEQUENCE LISTING DATE: 04/11/2001
PATENT APPLICATION: US/09/813,718 TIME: 17:38:24

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Output Set: N:\CRF3\04112001\I813718.raw

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175 Pro Leu Glu Lys Leu Lys Phe Ile Lys Gly Thr Asp Tyr Gln Leu Ser
176                 115                 120                 125
178 aaa gag tac aca cta gat gtg tac aga ctc tcc tcc gtg gtc aca cag   3853
179 Lys Glu Tyr Thr Leu Asp Val Tyr Arg Leu Ser Ser Val Val Thr Gln
180             130                 135                 140
182 cac gat tcc aag aag gct gga gct gag gtg gta aag cag gtg gag cac   3901
183 His Asp Ser Lys Lys Ala Gly Ala Glu Val Val Lys Gln Val Glu His
184         145                 150                 155
186 cct ttg ctg agt ggc ctc tta tac ccc gga ctg cag gct ttg gat gaa   3949
187 Pro Leu Leu Ser Gly Leu Leu Tyr Pro Gly Leu Gln Ala Leu Asp Glu
188     160                 165                 170
190 gag tat tta aaa gta gat gcc caa ttt gga ggc att gat cag aga aag   3997
191 Glu Tyr Leu Lys Val Asp Ala Gln Phe Gly Gly Ile Asp Gln Arg Lys
192 175                 180                 185                 190
194 att ttc acc ttt gca gag aag tac ctc cct gca ctt ggc tat tca aaa   4045
195 Ile Phe Thr Phe Ala Glu Lys Tyr Leu Pro Ala Leu Gly Tyr Ser Lys
196                 195                 200                 205
198 cgg gtc cat ctg atg aat cct atg gtt cca gga tta aca ggc agc aaa   4093
199 Arg Val His Leu Met Asn Pro Met Val Pro Gly Leu Thr Gly Ser Lys
200             210                 215                 220
202 atg agc tct tca gaa gag gag tcc aag att gat ctc ctt gat cgg aag   4141
203 Met Ser Ser Ser Glu Glu Glu Ser Lys Ile Asp Leu Leu Asp Arg Lys
204         225                 230                 235
206 gag gat gtg aag aaa aaa ctg aag aag gcc ttc tgt gag cca gga aat   4189
207 Glu Asp Val Lys Lys Lys Leu Lys Lys Ala Phe Cys Glu Pro Gly Asn
208     240                 245                 250
210 gtg gag aac aat ggg gtt ctg tcc ttc atc aag cat gtc ctt ttt ccc   4237
211 Val Glu Asn Asn Gly Val Leu Ser Phe Ile Lys His Val Leu Phe Pro
212 255                 260                 265                 270
214 ctt aag tcc gag ttt gtg atc cta cga gat gag aaa tgg ggt gga aac   4285
215 Leu Lys Ser Glu Phe Val Ile Leu Arg Asp Glu Lys Trp Gly Gly Asn
216                 275                 280                 285
218 aaa acc tac aca gct tac gtg gac ctg gaa aag gac ttt gct gct gag   4333
219 Lys Thr Tyr Thr Ala Tyr Val Asp Leu Glu Lys Asp Phe Ala Ala Glu
220             290                 295                 300
222 gtt gta cat cct gga gac ctg aag aat tct gtt gaa gtc gca ctg aac   4381
223 Val Val His Pro Gly Asp Leu Lys Asn Ser Val Glu Val Ala Leu Asn
224         305                 310                 315
226 aag ttg ctg gat cca atc cgg gaa aag ttt aat acc cct gcc ctg aaa   4429
227 Lys Leu Leu Asp Pro Ile Arg Glu Lys Phe Asn Thr Pro Ala Leu Lys
228     320                 325                 330
230 aaa ctg gcc agc gct gcc tac cca gat ccc tca aag cag aag cca atg   4477
231 Lys Leu Ala Ser Ala Ala Tyr Pro Asp Pro Ser Lys Gln Lys Pro Met
232 335                 340                 345                 350
234 gcc aaa ggc cct gcc aag aat tca gaa cca gag gag gtc atc cca tcc   4525
235 Ala Lys Gly Pro Ala Lys Asn Ser Glu Pro Glu Glu Val Ile Pro Ser
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RAW SEQUENCE LISTING DATE: 04/11/2001
PATENT APPLICATION: US/09/813,718 TIME: 17:38:24

Input Set : A:\Pto.da
Output Set: N:\CRF3\04112001\I813718.raw

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242 gat gca gac agc ctg tat gta gag aag att gac gtg ggg gaa gct gaa   4621
243 Asp Ala Asp Ser Leu Tyr Val Glu Lys Ile Asp Val Gly Glu Ala Glu
244         385                 390                 395
246 cca cgg act gtg gtg agc ggc ctg gta cag ttc gtg ccc aag gag gaa   4669
247 Pro Arg Thr Val Val Ser Gly Leu Val Gln Phe Val Pro Lys Glu Glu
248     400                 405                 410
250 ctg cag gac agg ctg gta gtg gtg ctg tgc aac ctg aaa ccc cag aag   4717
251 Leu Gln Asp Arg Leu Val Val Val Leu Cys Asn Leu Lys Pro Gln Lys
252 415                 420                 425                 430
254 atg aga gga gtc gag tcc caa ggc atg ctt ctg tgt gct tct ata gaa   4765
255 Met Arg Gly Val Glu Ser Gln Gly Met Leu Leu Cys Ala Ser Ile Glu
256                 435                 440                 445
258 ggg ata aac cgc cag gtt gaa cct ctg gac cct ccg gca ggc tct gct   4813
259 Gly Ile Asn Arg Gln Val Glu Pro Leu Asp Pro Pro Ala Gly Ser Ala
260             450                 455                 460
262 cct ggt gag cac gtg ttt gtg aag ggc tat gaa aag ggc caa cca gat   4861
263 Pro Gly Glu His Val Phe Val Lys Gly Tyr Glu Lys Gly Gln Pro Asp
264         465                 470                 475
266 gag gag ctc aag ccc aag aag aaa gtc ttc gag aag ttg cag gct gac   4909
267 Glu Glu Leu Lys Pro Lys Lys Lys Val Phe Glu Lys Leu Gln Ala Asp
268     480                 485                 490
270 ttc aaa att tct gag gag tgc atc gca cag tgg aag caa acc aac ttc   4957
271 Phe Lys Ile Ser Glu Glu Cys Ile Ala Gln Trp Lys Gln Thr Asn Phe
272 495                 500                 505                 510
274 atg acc aag ctg ggc tcc att tcc tgt aaa tcg ctg aaa ggg ggg aac   5005
275 Met Thr Lys Leu Gly Ser Ile Ser Cys Lys Ser Leu Lys Gly Gly Asn
276             515                 520                 525
278 att agc ctc gag cac cac cac cac cac cac tgagatccgg ctgctaacaa     5055
279 Ile Ser Leu Glu His His His His His His
280             530                 535
282 agcccgaaag gaagctgagt tggctgctgc caccgctgag caataactag cataacccct 5115
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288 <211> LENGTH: 536
289 <212> TYPE: PRT
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Description of Artificial Sequence: human
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297 <400> SEQUENCE: 2
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302              20                  25                  30
304 Glu Arg Glu Leu Lys Ile Tyr Trp Gly Thr Ala Thr Thr Gly Lys Pro
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RAW SEQUENCE LISTING DATE: 04/11/2001
PATENT APPLICATION: US/09/813,718 TIME: 17:38:24

Input Set : A:\Pto.da
Output Set: N:\CRF3\04112001\I813718.raw

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308      50                  55                  60
310 Ala Gly Cys Glu Val Thr Ile Leu Phe Ala Asp Leu His Ala Tyr Leu
311  65                  70                  75                  80
313 Asp Asn Met Lys Ala Pro Trp Glu Leu Leu Glu Leu Arg Val Ser Tyr
314                  85                  90                  95
316 Tyr Glu Asn Val Ile Lys Ala Met Leu Glu Ser Ile Gly Val Pro Leu
317              100                 105                 110
319 Glu Lys Leu Lys Phe Ile Lys Gly Thr Asp Tyr Gln Leu Ser Lys Glu
320          115                 120                 125
322 Tyr Thr Leu Asp Val Tyr Arg Leu Ser Ser Val Val Thr Gln His Asp
323      130                 135                 140
325 Ser Lys Lys Ala Gly Ala Glu Val Val Lys Gln Val Glu His Pro Leu
326 145                 150                 155                 160
328 Leu Ser Gly Leu Leu Tyr Pro Gly Leu Gln Ala Leu Asp Glu Glu Tyr
329                 165                 170                 175
331 Leu Lys Val Asp Ala Gln Phe Gly Gly Ile Asp Gln Arg Lys Ile Phe
332             180                 185                 190
334 Thr Phe Ala Glu Lys Tyr Leu Pro Ala Leu Gly Tyr Ser Lys Arg Val
335         195                 200                 205
337 His Leu Met Asn Pro Met Val Pro Gly Leu Thr Gly Ser Lys Met Ser
338     210                 215                 220
340 Ser Ser Glu Glu Glu Ser Lys Ile Asp Leu Leu Asp Arg Lys Glu Asp
341 225                 230                 235                 240
343 Val Lys Lys Lys Leu Lys Lys Ala Phe Cys Glu Pro Gly Asn Val Glu
344                 245                 250                 255
346 Asn Asn Gly Val Leu Ser Phe Ile Lys His Val Leu Phe Pro Leu Lys
347             260                 265                 270
349 Ser Glu Phe Val Ile Leu Arg Asp Glu Lys Trp Gly Gly Asn Lys Thr
350         275                 280                 285
352 Tyr Thr Ala Tyr Val Asp Leu Glu Lys Asp Phe Ala Ala Glu Val Val
353     290                 295                 300
355 His Pro Gly Asp Leu Lys Asn Ser Val Glu Val Ala Leu Asn Lys Leu
356 305                 310                 315                 320
358 Leu Asp Pro Ile Arg Glu Lys Phe Asn Thr Pro Ala Leu Lys Lys Leu
359                 325                 330                 335
361 Ala Ser Ala Ala Tyr Pro Asp Pro Ser Lys Gln Lys Pro Met Ala Lys
362             340                 345                 350
364 Gly Pro Ala Lys Asn Ser Glu Pro Glu Glu Val Ile Pro Ser Arg Leu
365         355                 360                 365
367 Asp Ile Arg Val Gly Lys Ile Ile Thr Val Glu Lys His Pro Asp Ala
368     370                 375                 380
370 Asp Ser Leu Tyr Val Glu Lys Ile Asp Val Gly Glu Ala Glu Pro Arg
371 385                 390                 395                 400
373 Thr Val Val Ser Gly Leu Val Gln Phe Val Pro Lys Glu Glu Leu Gln
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376 Asp Arg Leu Val Val Val Leu Cys Asn Leu Lys Pro Gln Lys Met Arg
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VERIFICATION SUMMARY DATE: 04/11/2001
PATENT APPLICATION: US/09/813,718 TIME: 17:38:25

Input Set : A:\Pto.da
Output Set: N:\CRF3\04112001\I813718.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

OIPE

RAW SEQUENCE LISTING DATE: 04/05/2001
PATENT APPLICATION: US/09/813,718 TIME: 08:08:35

Input Set : A:\tsri-8170.txt
Output Set: N:\CRF3\04052001\I813718.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: Schimmel, Paul
4 Wakasugi, Keisuke
6 <120> TITLE OF INVENTION: Human Aminoacyl-tRNA Synthetase Polypeptides Useful For
7 The Regulation of Angiogenesis
9 <130> FILE REFERENCE: 00-221
C--> 11 **<140> CURRENT APPLICATION NUMBER: US/09/813,718**
C--> 12 **<141> CURRENT FILING DATE: 2001-03-21**
14 <160> NUMBER OF SEQ ID NOS: 58
16 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

3151 <210> SEQ ID NO: 58
3152 <211> LENGTH: 5
3153 <212> TYPE: PRT
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3156 <400> SEQUENCE: 58
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delete

VERIFICATION SUMMARY DATE: 04/05/2001
PATENT APPLICATION: **US/09/813,718** TIME: 08:08:36

Input Set : **A:\tsri-8170.txt**
Output Set: **N:\CRF3\04052001\I813718.raw**

L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:3163 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:58
M:332 Repeated in SeqNo=58